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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,023	07/30/2003	Manish Kurhekar	JP920030089	7779
7590 Frederick W. Gibb, III McGinn & Gibb, PLLC Suite 304 2568-A Riva Road Annapolis, MD 21401		01/04/2007	EXAMINER TECKLU, ISAAC TUKU	
			ART UNIT 2192	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/630,023	KURHEKAR ET AL.	
	Examiner Isaac T. Tecklu	Art Unit 2192	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 30 July 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-26 and 29-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-26 and 29-38 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent-Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>07/30/2003</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

### **DETAILED ACTION**

1. This action is responsive to the interview conducted on 09/11/2006.
2. Claims 27-28 have been cancelled. Claims 29-38 have been added. Claims 3, 5-6, 10-11, 15, 17-18, 20, 22 and 25 have been amended.
3. Office action mailed on 08/24/2006 has been withdrawn and a new office action is issued to consider the preliminary amendment filed on 07/30/2003.
4. Claims 1- 26 and 29-38 have been examined.

#### ***Oath/Declaration***

5. The office acknowledges receipt of a properly signed oath/declaration filed on 07/30/2003.

#### ***Specification***

6. The disclosure is objected to because it contains an embedded hyperlink <http://upc.nersc.gov> on page 2, line 9. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

#### ***Claim Objections***

7. Claim 6 is objected to because of the following informalities: Claim 6, line 2 recites "affininty" instead of --affinity--. Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 112***

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
9. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation " said intermediate form UPC-unique constructs" in line 6.

There is insufficient antecedent basis for this limitation in the claim.

Claims 2-7 are rejected for dependency upon rejected claim1.

Claim 5 recites the limitation "said UPC-unique constructs" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 6 and 7are rejected for dependency upon rejected base claim 5.

***Claim Rejections - 35 USC § 102***

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

11. Claims 1-26 and 29-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Odani et al. (US 6,760,906 B1), hereinafter Odani.

As per claim 1, Odani discloses a method for compiling unified parallel c-language (UPC) source code containing upc-unique constructs and c-language constructs (e.g. Fig. 2, element 10 and related text), the method comprising the steps of:

translating said UPC source code into a first intermediate form (in column 5, lines 25-30 "... translating source code into intermediate code ...");

generating proxy form C-language code strings of data components within said intermediate form UPC-unique constructs (e.g. Fig. 4 and related text);

inserting said generated code strings into said UPC source code to form a combined code (in column 1, lines 25-31 "... source program and then combines them into a single long ...");

translating said combined code into a second intermediate form, wherein any statements within said UPC-unique constructs are placed in a C-form with associated program text (in

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column 11, lines 20-25 "... translates the internal form code ..."), and surviving UPC-unique constructs are discarded (in column 9, lines 17-23 ".. and removes the execution boundary ..." and Fig. 6 and related text); and

converting said second intermediate form to compiled machine code (in column 19, lines 50-55 "... converting the intermediate ..." and e.g. Fig. 2, element 20 and related text).

As per claim 2, Odani discloses the method of claim 1, wherein said code strings are proxy declarations (in column 22, lines 25-30 "... instructions are ... variable...").

As per claim 3 (Currently Amended), Odani discloses the method of claim 2, wherein a each said proxy declaration includes a name that is a mangled version of a name of a respective UPC-unique data component having a one-to-one mapping (e.g. Fig. 17 and related text).

As per claim 4, Odani discloses the method of claim 1, wherein said associated program text includes a conditional statement (e.g. Fig 13, element S2 and related text and in column 13, lines 60-65 "... if there are several instructions ...").

As per claim 5 (Currently Amended), Odani discloses the method of claim 4, wherein said UPC-unique statements constructs are forall statements, and said associated program text includes a conditional statement whose predicates leads to evaluation based upon an affinity test (e.g. Fig 13, element S2 and related text and in column 13, lines 60-65 "... if there are several instructions ...").

As per claim 6 (Currently Amended), Odani discloses the method of claim 5, wherein, for forall statements having an affinity other than "continue" continue (e.g. Fig 13, element S2 and related text), the translation step includes sub-traversal of a forall body and determining the context of each static level of nesting (e.g. Fig. 12 and related text).

As per claim 7, Odani discloses the method of claim 6, further comprising the step of incrementing a depth variable in accordance with each said sub-traversal (e.g. Fig. 12 and related text).

As per claim 8, this is another method version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 9, this is another method version of the claimed method discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 10 (Currently Amended), this is another method version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 11, this is another method version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 12, this is another method version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 13, this is another method version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 14, this is another method version of the claimed method discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 15, this is another method version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 16, this is another method version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 17, this is another method version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 18, this is another method version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 19, this is another method version of the claimed method discussed above (Claim 7), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 20, this is a compiler version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 21, this is a compiler version of the claimed method discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 22, this is a compiler version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 23, this is a compiler version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 24, this is a compiler version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 25, this is a compiler version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 26, this is a compiler version of the claimed method discussed above (Claim 7), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 29, this is a program storage device version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 30, this is a program storage device version of the claimed method discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 31, this is a program storage device version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 32, this is a program storage device version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 33, this is a program storage device version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 34, this is a parallel distributed shared memory version of the claimed method discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 35, this is a parallel distributed shared memory version of the claimed method discussed above (Claim 21), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 36, this is a parallel distributed shared memory version of the claimed method discussed above (Claim 22), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 37, this is a parallel distributed shared memory version of the claimed method discussed above (Claim 23), wherein all claim limitations have been addressed and/or

covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

As per claim 38, this is a parallel distributed shared memory version of the claimed method discussed above (Claim 24), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Odani.

***Conclusion***

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac T. Tecklu whose telephone number is (571) 272-7957. The examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit 2192

  
TUAN DAM  
SUPERVISORY PATENT EXAMINER